

APPENDIX A
"CLEAN" VERSION OF EACH PARAGRAPH/SECTION/CLAIM
37 C.F.R. § 1.121(b)(ii) AND (c)(i)

CLAIMS (with indication of amended or new):

A¹

1. (AMENDED) A method for fabricating a high density ceramic thick film comprising the steps of:

- providing vehicle comprising an organic binder and solvent;
- dispersing ceramic powders into the vehicle to be a paste;
- forming the paste to thick film by screen printing;
- removing the organic binder from the film;
- applying sol or sol-like solution to the surface of the film so that the sol or sol-like solution can infiltrate into the film, the sol-like solution being a material that can be processed as a solution by a sol-gel process;
- removing the remaining sol or sol-like solution from the surface of the film by spinning the film;
- drying and preheating the film; and
- sintering the film at the range from 700 to 1200°C.

2. (AMENDED) The method of claim 1, wherein the sol or sol-like solution includes metalorganic material used as a sol-like solution singly, mixed with other material, or dissolved in a solvent and the metalorganic material comprises one or more of alkoxide, hydrate or carbonate and the metalorganic material containing PZT component.

A²

6. (AMENDED) The method of claim 1, wherein the sintering temperature is 800 to 900°C.

A³

9. (AMENDED) The method for fabricating a high density ceramic thick film comprising the steps of:

- providing vehicle comprising an organic binder and solvent;

dispersing ceramic powders into the vehicle to be paste;

forming the paste to thick film by screen printing;

removing the organic binder from the film;

applying sol or sol-like solution to the surface of the film so that the sol or sol-like solution can infiltrate into the film;

removing the remaining sol or sol-like solution from the surface of the film by spinning the film;

drying and preheating the film;

sintering the film;

applying sol or sol-like solution to the surface of the film again so that the sol or sol-like solution can infiltrate into the film; and

sintering the film.

APPENDIX B
VERSION WITH MARKINGS TO SHOW CHANGES MADE
37 C.F.R. § 1.121(b)(iii) AND (c)(ii)

CLAIMS:

1. (AMENDED) A method for fabricating a high density ceramic thick film comprising the steps of:
 - providing vehicle comprising an organic binder and solvent;
 - dispersing ceramic powders into the vehicle to be a paste;
 - forming the paste to thick film by screen printing;
 - removing the organic binder from the film;
 - applying sol or sol-like solution to the surface of the film so that the sol or sol-like solution can infiltrate into the film, the sol-like solution being a material that can be processed as a solution by a sol-gel process;
 - removing the remaining sol or sol-like solution from the surface of the film by spinning the film;
 - drying and preheating the film; and
 - sintering the film at the range from 700 to 1200°C.
2. (AMENDED) The method of claim 1, wherein the sol or sol-like solution includes [has metal organic PZT component separated, mixed or dissolved in a solvent] metalorganic material used as a sol-like solution singly, mixed with other material, or dissolved in a solvent and the metalorganic material comprises one or more of alkoxide, hydrate or carbonate and the metalorganic material containing PZT component.
6. (AMENDED) The method of claim 1, wherein the sintering temperature is 800 to 900°C[in case of sintering].
9. (AMENDED) The method for fabricating a high density ceramic thick film comprising the steps of:
 - providing vehicle comprising an organic binder and solvent;

dispersing ceramic powders into the vehicle to be paste;
forming the paste to thick film by screen printing;
removing the organic binder from the film;
applying sol or sol-like solution to the surface of the film so that the sol or sol-like
solution can infiltrate into the film;
removing the remaining sol or sol-like solution from the surface of the film by spinning
the film;
drying and preheating the film;
sintering the film;
applying sol or sol-like solution to the surface of the film again so that the sol or
sol-like solution can infiltrate into the film; and
sintering the film[;].